



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the completed form to this address.

DATA MATRIX

Date November 25, 2008	EPA Reg. No./File Symbol 55146-3	Page 1 of 6			
Nufarm Americas Inc. AGT Division 150 Harvester Drive, Suite 200 Burr Ridge, IL 60527	Product Champion Technical				
Ingredient: Copper Hydroxide					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note

OPPTS Series 830	Product Properties				
830.1550	Product identity and composition	46437101	Nufarm Americas Inc. AGT Division	Own	
830.1600	Description of materials used to produce the product	46437101	Nufarm Americas Inc. AGT Division	Own	
830.1620	Description of production process	46437101	Nufarm Americas Inc. AGT Division	Own	
830.1650	Description of formulation process				1
830.1670	Discussion of formation of impurities	46437101 46428002	Nufarm Americas Inc. AGT Division	Own	
830.1700	Preliminary analysis	46428002	Nufarm Americas Inc. AGT Division	Own	
830.1750	Certified limits	46437101	Nufarm Americas Inc. AGT Division	Own	
830.1800	Enforcement analytical method	46428002 43821301	Nufarm Americas Inc. AGT Division	Own	
830.1900	Submittal of samples				2
830.6302	Color	Submit	Nufarm Americas Inc. AGT Division	Own	
Signature <i>Mary Beth Endres</i>	Name and Title Mary Beth Endres, Registration Manager			Date 11-25-2008	



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Ingredient: Copper Hydroxide

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6303	Physical state	Submit	Nufarm Americas Inc. AGT Division	Own	
830.6304	Odor	Submit	Nufarm Americas Inc. AGT Division	Own	
830.6313	Stability to normal and elevated temperatures, metals, and metal ions	Submit	Nufarm Americas Inc. AGT Division	Own	
830.6314	Oxidation/reduction: chemical incompatibility	47524201	PhibroTech , Inc.	PER	
830.6315	Flammability				3
830.6316	Explosibility				4
830.6317	Storage stability	Submit	Nufarm Americas Inc. AGT Division	Own	
830.6319	Miscibility				5
830.6320	Corrosion characteristics	Submit	Nufarm Americas Inc. AGT Division	Own	
830.6321	Dielectric breakdown voltage				6
830.7000	pH	Submit	Nufarm Americas Inc. AGT Division	Own	
830.7050	UV/Visible absorption	Submit	Nufarm Americas Inc. AGT Division	Own	
830.7100	Viscosity				7
830.7200	Melting point/melting range	Submit	Nufarm Americas Inc. AGT Division	Own	
830.7220	Boiling point/boiling range				8



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Ingredient: Copper Hydroxide					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7300	Density/relative density/bulk density	Submit	Nufarm Americas Inc. AGT Division	Own	
830.7370	Dissociation constants in water	Submit	Nufarm Americas Inc. AGT Division	Own	
830.7520	Particle size, fiber length, and diameter distribution				9
830.7550	Partition coefficient (n-octanol/water), shake flask method				10
830.7560	Partition coefficient (n-octanol/water), generator column method				10
830.7570	Partition coefficient (n-octanol/water), estimation by liquid chromatography				10
830.7840	Water solubility: column elution method; shake flask method	Submit	Nufarm Americas Inc. AGT Division	Own	
830.7860	Water solubility: generator column method		Nufarm Americas Inc. AGT Division	Own	
830.7950	Vapor pressure	Submit	Nufarm Americas Inc. AGT Division	Own	
Series 63	Various	43363805	Copper Sulfate Task Force	Own	
40 CFR 158.340	Toxicology				
870.1100	Acute oral toxicity	42235201	Griffin LLC	OLD	
870.1200	Acute dermal toxicity	42235202	Griffin LLC	OLD	



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Ingredient: Copper Hydroxide					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.1300	Acute inhalation toxicity	42481201	Griffin LLC	OLD	
870.2400	Primary eye irritation	40077002 40237402	Griffin LLC Griffin LLC	OLD	
870.2500	Primary dermal irritation	40601805 40680307 42235203	Winfield Solutions WESLEY INDUSTRIES INC Griffin LLC	OLD	
870.2600	Dermal sensitization	WAIVER Guidance for Reregistration of Pesticide products Containing Copper Group II Compounds as the AI April 1987	Label already lists product as dermal sensitizer		



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Ingredient: Copper Hydroxide					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note

EXPLANATORY NOTES

Note No.	Guideline Reference No.	Name of Test	Comment
1	830.1650	Description of production process	Not applicable to technical grade active ingredient. Guideline 830.1620 is primary.
2	830.1900	Submittal of samples	Not applicable unless specifically requested by the Agency.
3	830.6315	Flammability	Not applicable to technical grade active ingredient.
4	830.6316	Explosibility	Not applicable to technical grade active ingredient.
5	830.6319	Miscibility	Not applicable to technical grade active ingredient.
6	830.6321	Dielectric breakdown voltage	Not applicable to technical grade active ingredient.
7	830.7100	Viscosity	Not applicable to technical grade active ingredient.
8	830.7220	Boiling point/boiling range	Not applicable because product is not a liquid.
9	830.7520	Particle size, fiber length, and diameter distribution	Not applicable because product is not fibrous.



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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note

EXPLANATORY NOTES

Note No.	Guideline Reference No.	Name of Test	Comment
10	830.7550	Partition coefficient (n-octanol/water), shake flask method	Not applicable in inorganic compounds.
	830.7560	Partition coefficient (n-octanol/water), generator column method	
	830.7860	Water solubility: generator column method	


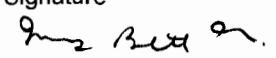


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Ingredient: Copper Hydroxide					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note

					
	Nufarm Americas Inc. AGT Division	Own			
	Nufarm Americas Inc. AGT Division	Own			
	Nufarm Americas Inc. AGT Division	Own			
			1		
	Nufarm Americas Inc. AGT Division	Own			
	Nufarm Americas Inc. AGT Division	Own			
	Nufarm Americas Inc. AGT Division	Own			
	Nufarm Americas Inc. AGT Division	Own			
			2		
	Nufarm Americas Inc. AGT Division	Own			
Signature 		Name and Title Mary Beth Endres, Registration Manager		Date 11-25-2008	



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	Nufarm Americas Inc. AGT Division	Own	
	Nufarm Americas Inc. AGT Division	Own	
	Nufarm Americas Inc. AGT Division	Own	
	PhibroTech , Inc.	PER	
			3
			4
	Nufarm Americas Inc. AGT Division	Own	
			5
	Nufarm Americas Inc. AGT Division	Own	
			6
	Nufarm Americas Inc. AGT Division	Own	
	Nufarm Americas Inc. AGT Division	Own	
			7
	Nufarm Americas Inc. AGT Division	Own	
			8



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	Nufarm Americas Inc. AGT Division	Own	
	Nufarm Americas Inc. AGT Division	Own	
			9
			10
			10
			10
	Nufarm Americas Inc. AGT Division	Own	
	Nufarm Americas Inc. AGT Division	Own	
	Nufarm Americas Inc. AGT Division	Own	
	Copper Sulfate Task Force	Own	
	Griffin LLC	OLD	
	Griffin LLC	OLD	



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	Griffin LLC	OLD	
	Griffin LLC Griffin LLC	OLD	
	Winfield Solutions WESLEY INDUSTRIES INC Griffin LLC	OLD	